WHAT IS CLAIMED IS:

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1	1.	A wireless network system,	comprising:

- a server system connected to a network;
- an electronic device having a wireless transceiver adapted to communicate via at least one of light transmission and radio frequency (RF) transmission; and

a portable wireless device having a wireless connection to the network, wherein the portable wireless device is adapted to communicate wirelessly with the electronic device, and the electronic device communicates with the server system over the network through the portable wireless device.

- 2. The wireless network system according to claim 1, wherein communication between the electronic device and the server system is secured from the portable wireless device.
- 3. The wireless network system according to claim 1, wherein the wireless connection is selected from the group consisting of a Transmission Control Protocol/Internet Protocol (TCP/IP) connection, a satellite connection, a Global System for Mobile communications (GSM) connection, a code-division multiple access (CDMA) connection, a time-division multiple access (TDMA) connection, a Cellular Digital Packet Data (CDPD) connection, a General Packet Radio Service (GPRS) connection, and a wideband code-division multiple access (WCDMA) connection.
- 4. The wireless network system according to claim 1, wherein the electronic device communicates with the server system over the network through the portable wireless device by

- 3 transmitting data destined for the server system wirelessly to the portable wireless device, and
- 4 the portable wireless device transmits the data destined for the server system over the network
- 5 via the wireless connection to the server system.

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- 5. The wireless network system according to claim 1, wherein the electronic device communicates with the server system over the network through the portable wireless device by receiving data destined for the electronic device transmitted from the server system over the network to the portable wireless device via the wireless connection, and the portable wireless device transmits the data destined for the electronic device wirelessly to the electronic device.
- 6. The wireless network system according to claim 1, wherein the electronic device lacks a permanent connection to the network.
- 7. The wireless network system according to claim 1, wherein the electronic device only communicates with the server system indirectly through the portable wireless device.
- 1 8. The wireless network system according to claim 1, wherein the server system is 2 adapted to process a transaction.
- 1 9. The wireless network system according to claim 1, wherein the portable wireless
 2 device includes a second wireless transceiver to communicate wirelessly with the wireless
 3 transceiver of the electronic device.

1	10.	The wireless network system according to claim 1, wherein the network is a wide
2	area network	(WAN).
1	11.	The wireless network system according to claim 1, wherein communication
2	between the e	lectronic device and the server system is packet-based.
1	12.	A method of wireless communication, comprising:
2		connecting a server system to a network;
.3		establishing a wireless connection to the network by a portable wireless device;
3 44 45 15 16 16 16 16 16 16 16 16 16 16 16 16 16	and	
-5 -5		communicating wirelessly by an electronic device to the server system over the
6	netwo	rk through the portable wireless device, wherein the electronic device
<u>-</u> ;7	comm	nunicates directly with the portable wireless device via at least one of light
2 107 2 10 10 10 10 10 10 10 10 10 10 10 10 10	transn	nission and radio frequency (RF) transmission.
1	13.	The method according to claim 12, wherein the wireless connection is selected
2	from the grou	up consisting of a Transmission Control Protocol/Internet Protocol (TCP/IP)
3	connection, a	satellite connection, a Global System for Mobile communications (GSM)
4	connection, a	code-division multiple access (CDMA) connection, a time-division multiple access
5	(TDMA) con	nection, a Cellular Digital Packet Data (CDPD) connection, a General Packet Radio
6	Service (GPR	(RS) connection, and a wideband code-division multiple access (WCDMA)

connection.

1	14.	The method according to claim 12, wherein communication between the
2	electronic device and the server system is secured from the portable wireless device.	
1 2	15. the server sys	The method according to claim 12, further including processing a transaction by
_	the server sys	
1	16.	The method according to claim 12, further including:
2		transmitting data destined for the server system wirelessly by the electronic
3	device	e to the portable wireless device; and
4		transmitting the data destined for the server system over the network by the
1904 1944 1904 1905 1904 1905 1905 1905 1905 1905 1905 1905 1905	portab	ele wireless device via the wireless connection to the server system.
	17.	The method according to claim 12, further including:
1 2 3		transmitting data destined for the electronic device from the server system over
3	the ne	twork to the portable wireless device via the wireless connection; and
4		transmitting the data destined for the electronic device wirelessly from the
5	portab	ole wireless device to the electronic device.
1	18.	The method according to claim 12, wherein the electronic device lacks a
2	permanent co	nnection to the network.
1	19.	The method according to claim 12, wherein the electronic device only

communicates with the server system indirectly through the portable wireless device.

1	20. The method according to claim 12, wherein the network is a wide area	network
2	(WAN).	
1	21. The method according to claim 12, wherein communication between t	he
2	electronic device and the server system is packet-based.	
-	electionic device and the server system is packet cased.	
1	22. A portable wireless device, comprising:	
2	a first wireless transceiver to communicate wirelessly with an electron	ic device,
_3	wherein the first wireless transceiver is adapted to communicate via at least or	ne of light
4	transmission and radio frequency (RF) transmission; and	
<u> </u>	a second wireless transceiver having a wireless connection to a networ	k, wherein
	a server system is connected to the network, and the portable wireless device	is adapted
7	to permit the electronic device to communicate with the server system over th	e network
8	through the portable wireless device.	
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1	23. The portable wireless device according to claim 22, wherein the first v	viralass
2	transceiver communicates wirelessly with the electronic device via a protocol selected	d from the
3	group consisting of InfraRed communication, Bluetooth protocol, and IEEE 802.11 p	rotocol.
1	24. The portable wireless device according to claim 22, wherein the wireless	ess
2	connection is selected from the group consisting of a Transmission Control Protocol/	Internet
3	Protocol (TCP/IP) connection, a satellite connection, a Global System for Mobile	

communications (GSM) connection, a code-division multiple access (CDMA) connection, a

- 5 time-division multiple access (TDMA) connection, a Cellular Digital Packet Data (CDPD)
- 6 connection, a General Packet Radio Service (GPRS) connection, and a wideband code-division
- 7 multiple access (WCDMA) connection.
- 1 25. The portable wireless device according to claim 22, wherein the first wireless
- 2 transceiver and the second wireless transceiver are a same device.
 - 26. The portable wireless device according to claim 22, wherein the server system is adapted to process a transaction.
 - 27. The portable wireless device according to claim 22, wherein the electronic device communicates with the server system over the network through the portable wireless device by transmitting data destined for the server system wirelessly to the portable wireless device, and the portable wireless device transmits the data destined for the server system over the network via the wireless connection to the server system.
- The portable wireless device according to claim 22, wherein the electronic device communicates with the server system over the network through the portable wireless device by receiving data destined for the electronic device transmitted from the server system over the network to the portable wireless device via the wireless connection, and the portable wireless
- device transmits the data destined for the electronic device wirelessly to the electronic device.

The portable wireless device according to claim 22, wherein the electronic device 1 29. 2 lacks a permanent connection to the network. 30. The portable wireless device according to claim 22, wherein the electronic device 1 only communicates with the server system indirectly through the portable wireless device. 2 The portable wireless device according to claim 22, wherein the network is a wide 1 31. 2 area network (WAN). The portable wireless device according to claim 22, wherein the portable wireless 32. device is a mobile telephone. 33. The portable wireless device according to claim 22, wherein the portable wireless device is a laptop computer. 34. The portable wireless device according to claim 22, wherein the portable wireless 1 2 device is a personal digital assistant (PDA). The portable wireless device according to claim 22, wherein the portable device is 35. 1 selected from the group consisting of an embedded computing device in a vehicle, and an 2

embedded computing device within a wearable computer.

2	between the electronic device and the server system is packet-based.		
1	37.	A method of wireless communication by a portable wireless device, comprising:	
2	light tr	establishing wireless communication with an electronic device via at least one of ansmission and radio frequency (RF) transmission;	
4	-	establishing a wireless connection to a network, wherein a server system is	
5	connec	eted to the network;	
6		receiving data destined for the server system wirelessly from the electronic	
1. 1.7	device	•	
E 8		transmitting the data destined for the server system over the network via the	
6 17 18 19 10 11 11 12	wirele	ss connection to the server system;	
1 0		receiving data destined for the electronic device from the server system over the	
111	netwo	rk via the wireless connection; and	
12		transmitting the data destined for the electronic device wirelessly to the electronic	
13	device	•	
1	38.	The method according to claim 37, wherein communication between the	
2		ice and the server system is secured from the portable wireless device.	
2	electronic dev	tee and the server system is secured from the portable wheress device.	
1	39.	The method according to claim 37, wherein the wireless connection is selected	
2	from the grou	p consisting of a Transmission Control Protocol/Internet Protocol (TCP/IP)	
3	connection, a satellite connection, a Global System for Mobile communications (GSM)		

The portable wireless device according to claim 22, wherein communication

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4 connection, a code-division multiple access (CDMA) connection, a time-division multiple access (TDMA) connection, a Cellular Digital Packet Data (CDPD) connection, a General Packet Radio 5 6 Service (GPRS) connection, and a wideband code-division multiple access (WCDMA) 7 connection. 1 40. The method according to claim 37, wherein the server system is adapted to 2 process a transaction. 41. The method according to claim 37, wherein the electronic device only communicates with the server system indirectly through the portable wireless device. 42. The method according to claim 37, wherein the network is a wide area network (WAN). 43. The method according to claim 37, wherein communication between the 74 2 electronic device and the server system is packet-based. 1 44. A program code storage device, comprising: 2 a machine-readable storage medium; and 3 machine-readable program code, stored on the machine readable storage medium, having instructions to 4 5 establish wireless communication with an electronic device via at least one

of light transmission and radio frequency (RF) transmission,

/	establish a wireless connection to a network, wherein a server system is	
8	connected to the network,	
9	receive data destined for the server system wirelessly from the electronic	
10	device,	
11	transmit the data destined for the server system over the network via the	
12	wireless connection to the server system,	
13	receive data destined for the electronic device from the server system over	
14	the network via the wireless connection, and	
15	transmit the data destined for the electronic device wirelessly to the	
15 16 11 11	electronic device.	
1	45. The program code storage device according to claim 44, wherein communication	
-2 -1 -1 -1	between the electronic device and the server system is secured from the portable wireless device.	
1	46. The program code storage device according to claim 44, wherein the wireless	
2	connection is selected from the group consisting of a Transmission Control Protocol/Internet	
3	Protocol (TCP/IP) connection, a satellite connection, a Global System for Mobile	
4	communications (GSM) connection, a code-division multiple access (CDMA) connection, a	
5	time-division multiple access (TDMA) connection, a Cellular Digital Packet Data (CDPD)	
6	connection, a General Packet Radio Service (GPRS) connection, and a wideband code-division	
7	multiple access (WCDMA) connection.	

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- 1 47. The program code storage device according to claim 44, wherein the server 2 system is adapted to process a transaction.
- 1 48. The program code storage device according to claim 44, wherein the electronic 2 device only communicates with the server system indirectly through the portable wireless device.
- 1 49. The program code storage device according to claim 44, wherein the network is a wide area network (WAN).
 - 50. The program code storage device according to claim 44, wherein communication between the electronic device and the server system is packet-based.
 - 51. An electronic device to indirectly communicate wirelessly with a server system, comprising:

a wireless transceiver to communicate wirelessly via at least one of light transmission and radio frequency (RF) transmission with a portable wireless device having a wireless connection to a network, wherein the server system is connected to the network, and the electronic device communicates with the server system over the network through the portable wireless device.

52. The electronic device according to claim 51, wherein the wireless transceiver communicates wirelessly with the portable wireless device via a protocol selected from the group consisting of InfraRed communication, Bluetooth protocol, and IEEE 802.11 protocol.

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- 1 53. The electronic device according to claim 51, wherein the wireless connection is
- 2 selected from the group consisting of a Transmission Control Protocol/Internet Protocol
- 3 (TCP/IP) connection, a satellite connection, a Global System for Mobile communications (GSM)
- 4 connection, a code-division multiple access (CDMA) connection, a time-division multiple access
- 5 (TDMA) connection, and a Cellular Digital Packet Data (CDPD) connection, a General Packet
- 6 Radio Service (GPRS) connection, and a wideband code-division multiple access (WCDMA)
- 7 connection.
 - 54. The electronic device according to claim 51, wherein communication between the electronic device and the server system is secured from the portable wireless device.
 - 55. The electronic device according to claim 51, wherein the electronic device communicates with the server system over the network through the portable wireless device by transmitting data destined for the server system wirelessly to the portable wireless device, and the portable wireless device transmits the data destined for the server system over the network via the wireless connection to the server system.
 - 56. The electronic device according to claim 51, wherein the electronic device communicates with the server system over the network through the portable wireless device by receiving data destined for the electronic device transmitted from the server system over the network to the portable wireless device via the wireless connection, and the portable wireless device transmits the data destined for the electronic device wirelessly to the electronic device.

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electronic device, wherein the portable wireless device transmits the data destined for the server system over the network via the wireless connection to the server system; and receiving data destined for the electronic device from the server system, wherein the portable wireless device receives the data destined for the electronic device from the server system over the network via the wireless connection and transmits the data destined for the electronic device from the server system over the network via the wireless connection and transmits the data destined for the electronic device wirelessly to the electronic device.

- 64. The method according to claim 63, wherein communication between the electronic device and the server system is secured from the portable wireless device.
- 65. The method according to claim 63, wherein the wireless connection is selected from the group consisting of a Transmission Control Protocol/Internet Protocol (TCP/IP) connection, a satellite connection, a Global System for Mobile communications (GSM) connection, a code-division multiple access (CDMA) connection, a time-division multiple access (TDMA) connection, a Cellular Digital Packet Data (CDPD) connection, a General Packet Radio Service (GPRS) connection, and a wideband code-division multiple access (WCDMA) connection.
- 1 66. The method according to claim 63, wherein the server system is adapted to 2 process a transaction.

1	67.	The method according to claim 63, wherein the electronic device only
2	communicates	s with the server system indirectly through the portable wireless device.
1	68.	The method according to claim 63, wherein the network is a wide area network
2	(WAN).	
1	69.	The method according to claim 63, wherein communication between the
2	electronic dev	rice and the server system is packet-based.
	70.	A program code storage device, comprising:
<u>-</u> [2		a machine-readable storage medium; and
ii ii ii		machine-readable program code, stored on the machine-readable storage medium,
_4 []	having	g instructions to
5		establish wireless communication with a portable wireless device via at
6		least one of light transmission and radio frequency (RF) transmission, wherein the
7		portable wireless device has a wireless connection to a network, and a server
8		system is connected to the network,
9		transmit data destined for the server system wirelessly to the portable
10		electronic device, wherein the portable wireless device transmits the data
11		destined for the server system over the network via the wireless connection to the
12		server system, and
13		receive data destined for the electronic device from the server system,
14		wherein the portable wireless device receives the data destined for the electronic

device from the server system over the network via the wireless connection and transmits the data destined for the electronic device wirelessly to the electronic device.

71. The program code storage device according to claim 70, wherein communication between the electronic device and the server system is secured from the portable wireless device.

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- 72. The program code storage device according to claim 70, wherein the wireless connection is selected from the group consisting of a Transmission Control Protocol/Internet Protocol (TCP/IP) connection, a satellite connection, a Global System for Mobile communications (GSM) connection, a code-division multiple access (CDMA) connection, a time-division multiple access (TDMA) connection, a Cellular Digital Packet Data (CDPD) connection, a General Packet Radio Service (GPRS) connection, and a wideband code-division multiple access (WCDMA) connection.
- 73. The program code storage device according to claim 70, wherein the server system is adapted to process a transaction.
- The program code storage device according to claim 70, wherein the electronic device only communicates with the server system indirectly through the portable wireless device.
 - 75. The program code storage device according to claim 70, wherein the network is a wide area network (WAN).

- 1 76. The program code storage device according to claim 70, wherein communication
 2 between the electronic device and the server system is packet-based.

 1 77. A vending machine, comprising:
 2 a wireless transceiver to communicate wirelessly via at least one of light
 3 transmission and radio frequency (RF) transmission with a portable wireless device
- having a wireless connection to a network, wherein a server system is connected to the network, and the wireless transceiver communicates with the server system over the network through the portable wireless device; and

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connection.

a dispenser to dispense an item when an approval is received from the server system over the network through the portable wireless device.

- 78. The vending machine according to claim 77, wherein the wireless transceiver communicates wirelessly with the portable wireless device via a protocol selected from the group consisting of InfraRed communication, Bluetooth protocol, and IEEE 802.11 protocol.
- 79. The vending machine according to claim 77, wherein the wireless connection is selected from the group consisting of a Transmission Control Protocol/Internet Protocol (TCP/IP) connection, a satellite connection, a Global System for Mobile communications (GSM) connection, a code-division multiple access (CDMA) connection, a time-division multiple access (TDMA) connection, a Cellular Digital Packet Data (CDPD) connection, a General Packet Radio Service (GPRS) connection, and a wideband code-division multiple access (WCDMA)

- 1 80. The vending machine according to claim 77, wherein the approval is transmitted 2 from the server system to the vending machine after successful payment verification.
- 1 81. The vending machine according to claim 77, wherein communication between the 2 vending machine and the server system is secured from the portable wireless device.

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- 82. The vending machine according to claim 77, wherein the vending machine communicates with the server system over the network through the portable wireless device by transmitting data destined for the server system wirelessly to the portable wireless device, and the portable wireless device transmits the data destined for the server system over the network via the wireless connection to the server system.
- 83. The vending machine according to claim 77, wherein the vending machine communicates with the server system over the network through the portable wireless device by receiving data destined for the vending machine transmitted from the server system over the network to the portable wireless device via the wireless connection, and the portable wireless device transmits the data destined for the vending machine wirelessly to the vending machine.
- 1 84. The vending machine according to claim 77, wherein the vending machine lacks a permanent connection to the network.
- 1 85. The vending machine according to claim 77, wherein the vending machine only communicates with the server system indirectly through the portable wireless device.

1 86. The vending machine according to claim 77, wherein the server system is adapted 2 to process a transaction. 87. The vending machine according to claim 77, wherein the wireless transceiver 1 2 transmits telemetry data destined to the server system along with transaction data destined to the 3 server system transmitted from the wireless transceiver. 1 88. The vending machine according to claim 77, wherein the network is a wide area network (WAN). 89. The vending machine according to claim 77, wherein communication between the = il il il il wireless transceiver and the server system is packet-based. 90. A method of wireless communication for payment processing, comprising: connecting a payment processing server system to a network; establishing a wireless connection to the network by a portable wireless device; 4 communicating wirelessly by a terminal to the payment processing server system 5 over the network through the portable wireless device, wherein the terminal 6 communicates directly with the portable wireless device via at least one of light

processing a transaction by the payment processing server system.

transmission and radio frequency (RF) transmission; and

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2	with the portable wireless device by the terminal.
1	92. The method according to claim 90, wherein the wireless connection is selected
2	from the group consisting of a Transmission Control Protocol/Internet Protocol (TCP/IP)
3	connection, a satellite connection, a Global System for Mobile communications (GSM)
4	connection, a code-division multiple access (CDMA) connection, a time-division multiple access
5	(TDMA) connection, a Cellular Digital Packet Data (CDPD) connection, a General Packet Radio
6	Service (GPRS) connection, and a wideband code-division multiple access (WCDMA)
7	connection.
1	93. The method according to claim 90, wherein communication between the terminal
2	and the payment processing server system is secured from the portable wireless device.
1	94. The method according to claim 90, further including:
2	transmitting data destined for the payment processing server system wirelessly by
3	the terminal to the portable wireless device; and
4	transmitting the data destined for the payment processing server system over the
5	network by the portable wireless device via the wireless connection to the server system.
1	95. The method according to claim 90, further including:
2	transmitting data destined for the terminal from the payment processing server
3	system over the network to the portable wireless device via the wireless connection; and

The method according to claim 90, further including communicating wirelessly

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4		transmitting the data destined for the terminal wirelessly from the portable
5	wireles	ss device to the terminal.
1	96.	The method according to claim 90, wherein the terminal lacks a permanent
2	connection to	the network.
1	97.	The method according to claim 90, wherein the terminal only communicates with
2	the payment p	rocessing server system indirectly through the portable wireless device.
	98. (WAN).	The method according to claim 90, wherein the network is a wide area network
1	99.	The method according to claim 90, wherein communication between the terminal
	and the payme	ent processing server system is packet-based.
1	100.	A method of reporting status information of a terminal, comprising:
2		establishing a wireless connection to a network by a portable wireless device,
3	wherei	n a server system is connected to the network;
4		establishing a local wireless connection between the portable wireless device and
5	the terr	minal, wherein the terminal communicates directly with the portable wireless
6	device	via at least one of light transmission and radio frequency (RF) transmission;
7		requesting the status information by the portable wireless device from the
8	termin	al:

9	transmitting the status information from the terminal to the portable
10	electronic device; and
11	transmitting the status information from the portable electronic device over the
12	network to the server system via the wireless connection.
1	101. The method according to claim 100, wherein communication between the
2	terminal and the server system is secured from the portable wireless device.
::1	102. The method according to claim 100, wherein the wireless connection is selected
1 2 2 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	from the group consisting of a Transmission Control Protocol/Internet Protocol (TCP/IP)
3	connection, a satellite connection, a Global System for Mobile communications (GSM)
4	connection, a code-division multiple access (CDMA) connection, a time-division multiple access
<u> </u>	(TDMA) connection, a Cellular Digital Packet Data (CDPD) connection, a General Packet Radio
5 6 7	Service (GPRS) connection, and a wideband code-division multiple access (WCDMA)
17	connection.
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1	103. The method according to claim 100, further including:
2	transmitting data destined for the terminal from the server system over the
3	network to the portable wireless device via the wireless connection; and
4	transmitting the data destined for the terminal wirelessly from the portable
5	wireless device to the electronic device via the local wireless connection.

1	104. The	method according to claim 100, wherein the terminal lacks a permanent
2	connection to the network.	
1	105. The	method according to claim 100, wherein the terminal only communicates
2	with the server system	em indirectly through the portable wireless device.
1	106. The	method according to claim 100, wherein the network is a wide area network
2	(WAN).	
of the state of th		
1	107. The	method according to claim 100, wherein communication between the
	terminal and the ser	ver system is packet-based.
1	108. A m	ethod of keyless entry, comprising:
1 1 2 2 L 3	estal	olishing a wireless connection to a network by a portable wireless device,
<u></u> 3	wherein a se	erver system is connected to the network;
4	estal	olishing a local wireless connection by the portable wireless device with
5	an access te	rminal, wherein the access terminal communicates directly with the portable
6	wireless dev	ice via at least one of light transmission and radio frequency (RF)
7	transmission	ı;
8	trans	mitting an access code from the portable wireless device via the local
9	wireless cor	nection to the access terminal;
10	trans	mitting an authorization package including the access code from the access
11	terminal via	the local wireless connection to the portable wireless device;

12	transmitting the authorization package from the portable wireless device over the
13	network to the server system via the wireless connection;
14	processing the authorization package by the server system to provide a result as to
15	whether access is permitted;
16	transmitting the result from the server system over the network to the portable
17	wireless device via the wireless connection;
18	transmitting the result from the portable wireless device wirelessly to the access
19	terminal via the local wireless connection; and
20	granting access by the access terminal if the result indicates that access is
21 121 121 121 121 121 121 121 121 121	permitted.
Table 1 to 1 t	109. The method according to claim 108, wherein communication between the access
12 11 11	terminal and the server system is secured from the portable wireless device.
1 1	110. The method according to claim 108, wherein the wireless connection is selected
2	from the group consisting of a Transmission Control Protocol/Internet Protocol (TCP/IP)
3	connection, a satellite connection, a Global System for Mobile communications (GSM)
4	connection, a code-division multiple access (CDMA) connection, a time-division multiple access
5	(TDMA) connection, a Cellular Digital Packet Data (CDPD) connection, a General Packet Radio
6	Service (GPRS) connection, and a wideband code-division multiple access (WCDMA)
7	connection.

1 111. The method according to claim 108, wherein the access terminal lacks a 2 permanent connection to the network. The method according to claim 108, wherein the access terminal only 1 112. 2 communicates with the server system indirectly through the portable wireless device. The method according to claim 108, wherein the network is a wide area network 1 113. 2 (WAN). 114. The method according to claim 108, wherein communication between the access terminal and the server system is packet-based. 115. A method of wireless communication by a stationary node, comprising: collecting data to be transmitted to a server system connected to a network; establishing wireless communication with a portable wireless device via at least one of light transmission and radio frequency (RF) transmission, wherein the portable 5 wireless device has a wireless connection to the network; and 6 transmitting the data wirelessly to the portable wireless device, wherein the 7 portable wireless device transmits the data to the server system over the network via the 8 wireless connection to the server system. 1 116. The method according to claim 115, wherein communication between the

stationary node and the server system is secured from the portable wireless device.

1	117.	The method according to claim 115, wherein the wireless connection is selected
2	from the grou	p consisting of a Transmission Control Protocol/Internet Protocol (TCP/IP)
3	connection, a satellite connection, a Global System for Mobile communications (GSM)	
4	connection, a code-division multiple access (CDMA) connection, a time-division multiple access	
5	(TDMA) connection, and a Cellular Digital Packet Data (CDPD) connection, a General Packet	
6	Radio Service (GPRS) connection, and a wideband code-division multiple access (WCDMA)	
7	connection.	
1	118.	The method according to claim 115, wherein the stationary node only
<u>L!</u> <u>C2</u>	communicates with the server system indirectly through the portable wireless device.	
	119.	The method according to claim 115, wherein the network is a wide area network
2	(WAN).	
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
1	120.	The method according to claim 115, wherein communication between the
2	stationary node and the server system is packet-based.	
1	121.	A method of non-real-time wireless communication by a stationary node,
2	comprising:	
3		collecting data to be transmitted to a server system connected to a network;
4		establishing wireless communication via a personal area network (PAN) with a
5	portable wireless device via at least one of light transmission and radio frequency (RF)	
6	transmission; and	

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transmitting the data wirelessly to the portable wireless device via the personal area network (PAN), wherein the portable wireless device transmits the data over the network to the server system at a later time.

- 122. The method according to claim 121, wherein the network is a second personal area network (PAN) and the portable wireless device transmits the data directly to the server system over the second personal area network.
- 123. The method according to claim 121, wherein the network is a wide area network (WAN), and the portable wireless device transmits the data to a second portable wireless device having a wireless connection to the wide area network, and the second portable wireless device transmits the data over the wide area network via the wireless connection to the server system.
- 124. The method according to claim 121, wherein communication between the stationary node and the server system is secured from the portable wireless device.
- 1 125. The method according to claim 123, wherein the wireless connection is selected
- 2 from the group consisting of a Transmission Control Protocol/Internet Protocol (TCP/IP)
- 3 connection, a satellite connection, a Global System for Mobile communications (GSM)
- 4 connection, a code-division multiple access (CDMA) connection, a time-division multiple access
- 5 (TDMA) connection, a Cellular Digital Packet Data (CDPD) connection, a General Packet Radio
- 6 Service (GPRS) connection, and a wideband code-division multiple access (WCDMA)
- 7 connection.

- 1 126. The method according to claim 121, wherein communication via the personal area 2 network (PAN) is via a protocol selected from the group consisting of InfraRed communication, 3 Bluetooth protocol, and IEEE 802.11 protocol.
- 1 127. A method of non-real-time wireless communication to a designated stationary 2 node, comprising:

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selecting a portable wireless device that travels within a personal area network (PAN) of the designated stationary node; and

transmitting wirelessly, from a server system connected to a network, data for the designated stationary node over the network to the portable wireless device, wherein the portable wireless device travels within the personal area network (PAN) of the designated stationary node and transmits wirelessly the data to the designated stationary node over the personal area network via at least one of light transmission and radio frequency (RF) transmission.

- 128. The method according to claim 127, wherein the network is a second personal area network (PAN) and the portable wireless device receives the data directly from the server system over the second personal area network.
- 1 129. The method according to claim 127, wherein the network is a wide area network 2 (WAN).

- 1 130. The method according to claim 127, wherein communication between the designated stationary node and the server system is secured from the portable wireless device.
- 1 131. The method according to claim 127, wherein communication over the wide area 2 network (WAN) is via a connection selected from the group consisting of a Transmission 3 Control Protocol/Internet Protocol (TCP/IP) connection, a satellite connection, a Global System 4 for Mobile communications (GSM) connection, a code-division multiple access (CDMA) 5 connection, a time-division multiple access (TDMA) connection, a Cellular Digital Packet Data 6 (CDPD) connection, a General Packet Radio Service (GPRS) connection, and a wideband code-

division multiple access (WCDMA) connection.

132. The method according to claim 127, wherein communication via the personal area network (PAN) is via a protocol selected from the group consisting of InfraRed communication, Bluetooth protocol, and IEEE 802.11 protocol.